

SITE INFORMATION

Revised: 4/28/98

Current Site Name: Hartebeesthoek
Location: Hartebeesthoek, Republic Of South Africa
Site Number: 109
Geographic Region: Africa
Tectonic Plate: African

General Site Description: HARTRAO is situated 60 km NW of Johannesburg. Hartrao is a national research facility which operates within the Foundation for Research Development.

Geological Province:

Local Geology: HARTRAO is located on the Pretoria series of the Transvaal system. The territory occupied or else underlain by the system embraces the greater part of the central Transvaal. The Transvaal system is of precambrian age. The antenna and buildings are situated on ongeluk lava.

Site Topo Map: Hekpoort 2527dc 2nd edition. 1:50,000 topographic map series. Available from the Government Printer, Pretoria.

CONTACT INFORMATION

Site Ownership: SOUTH AFRICA
Site Management: National Research Faculty of the Foundation for Research Development, GeoForschungZentrum (GFZ), Satellite Application Center (SAC)
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MONUMENT INFORMATION

Revised: 4/28/98

Current Site Name: Hartebeesthoek
Location: Hartebeesthoek, Republic Of South Africa
Site Number: 109
Number of Observing Monuments: 1
Surveyed into National Network? Yes

Monument Number: 7232
Type of Monument: Telescope Reference Center
Monument Inscription: None
Systems using Monument: 26-Meter Fixed Antenna

Latitude: S 25° 53' 23.10957"
Longitude: E 27° 41' 07.41118"
Elevation: 1390.140 meters
Height above Ellipsoid: 1415.720 meters
Geodetic Coordinate Source/Date: RSA Surveys and Land Information / 01-JUN-93
Geodetic Coordinate Datum/Ellipsoid: IERS ITRF94 (1993)
Elevation Datum: Unknown
Source of Monument Geodetic Survey Ties:
Comments: None

Differential Coordinates

Monument Number	Monument Inscription	X	Y	Z
—	ARGUS ANTENNA (BASE)	-796.791	2076.698	200.019
—	BRITT 44	918.303	-779.651	482.276
—	DORIS ANTENNA (BASE)	-801.257	2086.234	199.848
—	HARTRAO VI	-887.228	2279.075	222.557
—	ROGUE AN	-809.521	2107.232	198.800

SITE SKETCH

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OCCUPATION HISTORY

Revised: 4/28/98

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SLR Occupations

Monument Number	Occupying System	Occupation Designator	Starting Date	Ending Date
7501	MTLRS-1	75011501	15-Jun-93	08-Aug-93

VLBI Occupations

Monument Number	Occupying System	Occupation Designator	Starting Date	Ending Date
7232	26-Meter	72326201	01-May-76	———

GPS Occupations

Monument Name	Starting Date	Ending Date	Network
HARK	13-Jun-97	———	IGS
HART	01-Jan-92	10-Jun-97	IGS
HRAO	02-Apr-97	———	IGS

Footprint Surveys

Survey	Starting Date	Source
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No footprint surveys were completed. See the station description notes for geodetic ties to other local geodetic stations.